What is claimed is:

### 1. [Currently amended]

A method of invoking a remote Web service on a server by an application tool residing on the client, comprising steps of: dynamically generating Web-based forms; dynamically generating Web Services client stubs; invoking the Web service with one or more threads; and transforming invocation results into name value pairs.

[A method of consuming Web Services on demand, comprising steps of: parsing WSDL files; automatically generating Web Services client stubs; invoking Web Services with multiple threads; and processing invocation results.]

### 2. [Currently amended]

The method according to claim 1, wherein Web-based forms are generated concurrently with said client stubs by said application tool.

The method according to claim 1, wherein the WSDL parsing step causes Web-based forms to be generated concurrently with the client stubs.

### 3. [Currently amended]

The method according to claim 1, wherein the Web Services invoking step further comprises the step of constructing an invocation object from a WSDL file.

The method according to claim 1, wherein the Web Services invoking step further comprises steps of: optimally constructing invocation objects; recursively constructing invocation inputs; setting concurrency configurations; and making SOAP calls.

### 4. [Currently amended]

The method according to claim 1, wherein the Web Services invoking step further comprises the step of constructing an invocation object from said client stubs.

The method according to claim 3, wherein the invocation object construction step further comprises the step of automatically constructing invocation objects from said WSDL files.

#### 5. [Currently amended]

The method according to claim 1, wherein the Web Services invoking step further comprises the step of constructing an invocation object from loaded classes.

The method according to claim 3, wherein the invocation object construction step further comprises the step of automatically constructing invocation objects from said client stub.

6. [Currently amended]

The method according to claim 1, wherein the Web Services invoking step further comprises the step of recursively transforming SOAP schema types to data types of the underlying programming language.

The method according to claim 3, wherein the invocation object construction step further comprises the step of automatically constructing invocation objects from loaded classes.

### 7. [Currently amended]

The method according to claim 1, wherein the Web Services invoking step further comprises the step of simultaneously processing one or more invocation requests.

The method according to claim 3, wherein the input construction step further comprises the step of recursively mapping SOAP schema types to data types of the underlying programming language.

## 8. [Currently amended]

The method according to claim 7, wherein each invocation request causes one or more invocation threads to be generated by said application tool.

The method according to claim 3, wherein the concurrency configuration step further comprises the steps of: setting total number of invocation threads; setting initial number of invocation threads; setting time interval for the next thread after initial threads have been spurred; and setting number of repeated invocations per invocation thread.

## 9. [Currently amended]

The method according to claim 8, further comprising the steps of: pausing said invocation threads; stopping said invocation threads; and restarting paused invocation threads.

The method according to claim 3, further comprising the step of constructing invocation request messages from: said invocation objects; said invocation inputs; and said concurrency configurations.

#### 10. [Currently amended]

The method according to claim 1, wherein the Web Services invoking step further comprises the step of cloning prior Web Services invocations.

The method according to claim 3, wherein the SOAP call step further comprises the step of simultaneously processing one or more said invocation requests.

# 11. [Currently amended]

The method according to claim 1, further comprising the step of visually transforming said name value pairs into one or more Web pages with one or more predefined templates.

The method according to claim 10, wherein each invocation request causes one or more invocation threads to be spurred.

### 12. [Currently amended]

A system for invoking a remote Web service on a server by an application tool residing on the client, comprising means for: dynamically generating Web-based forms; dynamically generating Web Services client stubs; invoking the Web service with one or more threads; and transforming invocation results into name value pairs.

The method according to claim 1, wherein the Web Services invoking step further comprises the steps of: pausing said invocation threads; stopping said invocation threads; and restarting paused invocation threads.

# 13. [Currently amended]

The system according to claim 12, wherein Web-based forms are generated concurrently with said client stubs by said application tool.

The method according to claim 1, wherein the Web Services invoking step further comprises the step of cloning prior Web Services invocations.

# 14. [Currently amended]

The system according to claim 12, wherein means for invoking said Web service further comprise means for constructing an invocation object from a WSDL file.

invocation threads; measuring memory usage of the invocation threads; saving an invocation request as the baseline, and comparing performance and load of other invocation requests to the baseline; saving at least two invocation requests as benchmarks, and comparing

performance and load among the benchmarks.

### 15. [Currently amended]

The system according to claim 12, wherein means for invoking said Web service further comprise means for constructing an invocation object from said client stubs.

The method according to claim 1, further comprising the step of charging end users with a pay-as-you-go finance schedule.

### 16. [Currently amended]

The system according to claim 12, wherein means for invoking said Web service further comprise means for constructing an invocation object from loaded classes.

The method according to claim 1, further comprising the step of charging end users with a prepaid finance schedule.

## 17. [Currently amended]

The system according to claim 12, wherein means for invoking said Web service further comprise means for recursively transforming SOAP schema types to data types of the underlying programming language.

The method according to claim 1, wherein the result processing step further comprises the step of presenting the invocation result with a set of predefined templates.

# 18. [Currently amended]

The system according to claim 12, wherein means for invoking said Web service further comprise means for simultaneously processing one or more invocation requests.

The method according to claim 1, wherein the result processing step further comprises the step of processing attachments which are received along with the invocation results.

# 19. [Currently amended]

The system according to claim 18, wherein each invocation request causes one or more invocation threads to be generated by said application tool.

A system for consuming Web Services on demand, comprising means for: parsing WSDL files; automatically generating Web Services client stubs; invoking Web Services with multiple

threads; and processing invocation results.

### 20. [Currently amended]

The system according to claim 19, further comprising means for: pausing said invocation threads; stopping said invocation threads; and restarting paused invocation threads.

The system according to claim 19, further comprising means for processing instantaneous and spontaneous invocation requests.

### 21. [Currently amended]

The system according to claim 12, wherein means for invoking said Web service further comprise means for cloning prior Web Services invocations.

The system according to claim 19, further comprising means for dynamically configuring and reconfiguring the invocation requests.

## 22. [Currently amended]

The system according to claim 12, further comprising means for visually transforming said name value pairs into one or more Web pages with one or more predefined templates.

The system according to claim 19, wherein the means for invoking Web Services further comprises means for charging end users with a pay-as-you-go finance schedule.

#### 23. [Currently amended]

A computer program product for invoking a remote Web service on a server by an application tool residing on the client, the computer program product embodied on one or more computer-readable media and comprising computer-readable program code means for:

dynamically generating Web-based forms; dynamically generating Web Services client stubs; invoking the Web service with one or more threads; and transforming invocation results into name value pairs.

The system according to claim 19, wherein the means for invoking Web Services further comprises means for charging end users with a prepaid finance schedule.

#### 24. [Currently amended]

The computer program product according to claim 23, wherein Web-based forms are generated concurrently with said client stubs by said application tool.

The system according to claim 19, further comprising means for instantly making Web Services accessible via the Web.

### 25. [Currently amended]

The computer program product according to claim 23, wherein means for invoking said

Web service further comprise computer-readable program code means for constructing an

invocation object from a WSDL file.

The system according to claim 19, further comprising means for: performance testing Web Services; load testing Web Services; and benchmark testing Web Services.

### 26. [Currently amended]

The computer program product according to claim 23, wherein means for invoking said

Web service further comprise computer-readable program code means for constructing an

invocation object from said client stubs.

A computer program product for consuming Web Services on demand, the computer program product embodied on one or more computer-readable media and comprising computer-readable program code means for: parsing WSDL files; automatically generating Web Services client stubs; invoking Web Services with multiple threads; and processing invocation results.

27. [Currently amended]

The computer program product according to claim 23, wherein means for invoking said

Web service further comprise computer-readable program code means for constructing an

invocation object from loaded classes.

The computer program product according to claim 26, wherein the means for parsing WSDL files causes HTML forms to be generated concurrently with Java client stubs.

28. [Currently amended]

The computer program product according to claim 23, wherein means for invoking said

Web service further comprise computer-readable program code means for recursively

transforming SOAP schema types to data types of the underlying programming language.

The computer program product according to claim 26, wherein the means for invoking Web Services further comprises computer-readable program code means for: optimally constructing

invocation objects; recursively constructing invocation inputs; setting concurrency configurations; and making SOAP calls.

### 29. [Currently amended]

The computer program product according to claim 23, wherein means for invoking said

Web service further comprise computer-readable program code means for simultaneously

processing one or more invocation requests.

The computer program product according to claim 28, wherein the means for constructing invocation objects further comprises computer-readable program code means for automatically constructing invocation objects from said WSDL files.

### 30. [Currently amended]

The computer program product according to claim 29, wherein each invocation request causes one or more invocation threads to be generated by said application tool.

The computer program product according to claim 28, wherein the means for constructing invocation objects further comprises computer-readable program code means for automatically constructing invocation objects from said client stubs.

### 31. [Currently amended]

The computer program product according to claim 30, further comprising computer-readable program code means for: pausing said invocation threads; stopping said invocation threads; and restarting paused invocation threads.

The computer program product according to claim 28, wherein the means for constructing invocation objects further comprises computer-readable program code means for automatically constructing invocation objects from loaded classes.

# 32. [Currently amended]

The computer program product according to claim 23, wherein means for invoking said

Web service further comprise computer-readable program code means for cloning prior Web

Services invocations.

The computer program product according to claim 28, wherein the means for constructing inputs further comprises computer-readable program code means for recursively mapping SOAP

schema types to Java types.

33. [Currently amended]

The computer program product according to claim 23, further comprising computerreadable program code means for visually transforming said name value pairs into one or more
Web pages with one or more predefined templates.

The computer program product according to claim 28, wherein the means for concurrency configurations further comprises computer-readable program code means for: setting total number of invocation threads; setting initial number of invocation threads; setting time interval for the next thread after initial threads have been spurred; and setting number of repeated invocations per invocation thread.

- 34. [Cancelled]
- 35. [Cancelled]
- 36. [Cancelled]
- 37. [Cancelled]
- 38. [Cancelled]
- 39. [Cancelled]
- 40. [Cancelled]
- 41. [Cancelled]
- 42. [Cancelled]
- 43. [Cancelled]
- 44. [Cancelled]
- 45. [Cancelled]
- 46. [Cancelled]
- 47. [Cancelled]
- 48. [Cancelled]